



ANTONIO R. VILLARAIGOSA  
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NICK PATSAOURAS  
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BARBARA E. MOSCHOS, *Secretary*

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January 2, 2006

Mr. Dave Todd  
Supervising Land and Water Use Analyst  
California Department of Water Resources  
Office of Water Use Efficiency  
P.O. Box 942836  
Sacramento, California 94236-0001

Dear Mr. Todd:

Subject: Supplemental Information for City of Los Angeles Year 2005 Urban Water Management Plan

Please find enclosed the Los Angeles Department of Water and Power's (LADWP) 2005 Urban Water Management Plan (Water Plan) Supplemental Information. This supplemental information, which was approved by the LADWP Board of Commissioners on December 19, 2006, was requested by the California Department of Water Resources (DWR) in order for DWR to complete certification of LADWP's Water Plan. A copy of the approved LADWP Board of Commissioners resolution, and the Water Plan Supplemental Information (including Attachments A through D), are enclosed.

The supplemental information requested by DWR included:

- LADWP's coordination and communication efforts to develop the Water Plan (specifically, DWR requested the attendance sheet (Attachment A) for LADWP's coordination meeting, and mailing list for circulation of the Water Plan (Attachment B));
- a breakdown of groundwater rights by basin;
- LADWP's definition of an average hydrologic year;
- a statement that LADWP does not sell to other water agencies;
- LADWP's estimated timelines for projected water resource projects;
- copies of Best Management Practices reports for 2003 and 2004 that have been submitted to the California Urban Water Conservation Council and referenced in the Water Plan (Attachments C and D); and
- a clarification that earthquakes and power outages are part of LADWP's Emergency Response Plans.

## Water and Power Conservation ...a way of life

111 North Hope Street, Los Angeles, California 90012-2607 Mailing address: Box 51111, Los Angeles 90051-5700  
Telephone: (213) 367-4211 Cable address: DEWAPOLA



Mr. Dave Todd  
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LADWP staff has confirmed with Mr. Sergio Fierro of DWR's Southern District that the enclosed Supplemental Information are responsive to DWR's request, which will enable DWR to certify LADWP's Water Plan as compliant with the requirements of Sections 10610 through 10657 of the California Water Code.

We would like to thank Mr. Fierro for coordinating with LADWP staff to ascertain the clarifications and additional information that are included in this supplemental information package.

As always, we appreciate the opportunity to work cooperatively with DWR in developing the most comprehensive Water Plan for the City of Los Angeles.

If you have any questions, please contact me at (213) 367-0873.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas M. Erb". The signature is fluid and cursive, with the first name "Thomas" and last name "Erb" clearly distinguishable.

Thomas M. Erb  
Director of Water Resources

AZB:mm

Enclosures

c: Mr. Sergio Fierro. DWR



WHEREAS, the California Urban Water Management Planning Act requires California water suppliers to prepare and adopt an Urban Water Management Plan every five years that describes their historical and future efforts in the area of water resources; and

WHEREAS, the Los Angeles Department of Water and Power (LADWP) has prepared a five-year update to the City of Los Angeles' Urban Water Management Plan (2005 Water Plan) pursuant to applicable provisions of Sections 10610 through 10657 of Division 6 of the California Water Code; and

WHEREAS, LADWP's 2005 Water Plan update was adopted by the LADWP Board of Commissioners on November 17, 2005; and

WHEREAS, the California Department of Water Resources has reviewed LADWP's 2005 Water Plan and has required that supplemental information be provided to allow LADWP's 2005 Water Plan to fully comply with the requirements; and

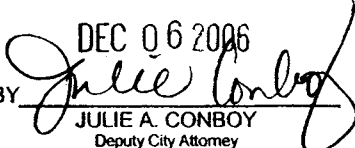
WHEREAS, the 2005 Urban Water Management Plan Supplemental Information contains and addresses the additional information required by the California Department of Water Resources, and will allow LADWP to fully comply with the requirements of Urban Water Management Plans.

NOW, THEREFORE, BE IT RESOLVED, that the 2005 Urban Water Management Plan Supplemental Information for the City of Los Angeles 2005 Urban Water Management Plan is hereby adopted; and

BE IT FURTHER RESOLVED that the President or Vice President of this Board, or the General Manager, or such person as he shall designate in writing as his designee, and the Secretary, Assistant Secretary, or the Acting Secretary of this Board are hereby directed to transmit the 2005 Urban Water Management Plan Supplemental Information to the California Department of Water Resources for and on behalf of LADWP.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of a resolution adopted by the Board of Water and Power Commissioners of the City of Los Angeles at its meeting held **DEC 19 2006**

APPROVED AS TO FORM AND LEGALITY  
ROCKARD J. DELGADILLO, CITY ATTORNEY

DEC 06 2006  
BY   
JULIE A. CONBOY  
Deputy City Attorney

  
Secretary



## **2005 Urban Water Management Plan Supplemental Information**

The California Department of Water Resources (DWR), in the process of reviewing the City of Los Angeles Department Water and Power (LADWP) 2005 Urban Water Management Plan (Water Plan), have requested additional information from LADWP to supplement information provided in the Water Plan. The supplemental information provided in this paper has been approved by the LADWP Board of Commissioners, and is now part of the Water Plan.

Following are the eight supplemental information items requested by DWR:

**1) DWR requested that LADWP describe its coordination efforts with other agencies to prepare the Water Plan and to provide a copy of the attendance sheet for the coordination meeting held at LADWP on June 7, 2005.**

Pertinent California Water Code Section, 10620(d)(2) - Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.

*LADWP Supplemental Information:*

*LADWP coordinated the preparation of the Water Plan with other agencies and stakeholders in the Los Angeles area. As part of this effort, LADWP conducted two public workshops to solicit stakeholder input prior to commencing the update and adopting the Water Plan. Notices for both workshops are included in the Water Plan. On June 7, 2005, LADWP conducted a workshop with several water agencies in the area (including the Metropolitan Water District of Southern California) to coordinate the preparation of the Water Plan. The attendance list for the June 7<sup>th</sup> workshop is included as Attachment A.*

**2) DWR requested that LADWP provide a copy of the mailing list used to circulate the final Water Plan.**

Pertinent California Water Code Section, 10635(b) - The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.

*LADWP Supplemental Information:*

*LADWP provided (via mail) a complete copy of the final Water Plan to a broad mailing list including Los Angeles City and County water supply, sanitation, demographic projection, and flood control agencies within which LADWP provides water supplies at or around January 12, 2006. The Water Plan includes the water service reliability requirements as contained in Water Code Section 10631. LADWP's Water Plan mailing list is included as Attachment B.*

**3) DWR requested that LADWP provide a breakdown of groundwater rights for each of the basins that groundwater is extracted.**

Pertinent California Water Code Section, 10631(b) - Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:

*LADWP Supplemental Information:*

LADWP					
Amount of Groundwater Projected to be Pumped - AFY					
Basin Name(s)	2010	2015	2020	2025	2030 - Opt.
Central	15,000	15,000	15,000	15,000	15,000
Eagle Rock	500	500	500	500	500
West Coast	0	0	0	0	0
Sylmar	3,255	3,255	3,255	3,255	3,255
San Fernando	87,000	87,000	87,000	87,000	87,000
% of Total Water Supply	15%	15%	14%	14%	14%

**4) DWR requested that LADWP define the basis for developing hydrologic assumptions for an average water year.**

Pertinent California Water Code Section, 10631(c)(1) - Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following: An average water year

*LADWP Supplemental Information:*

*Reporting and discussion for LADWP's average water year supplies are based on an analysis of hydrology from the 2005-2006 runoff year (April-March) , followed by historical hydrology the 1969-1970 through 2003-2004 runoff years. The Los Angeles Aqueduct Simulation Model was used to examine the 35 historical combinations, with each model simulation run beginning with the 2005-2006 runoff year. Discussion on the vulnerability of the water supply due to seasonal or climatic shortage is provided in Chapter 6 of the Water Plan.*

**5) DWR requested that LADWP provide a statement that it does not sell water to other agencies.**

Pertinent California Water Code Section, 10631(e)(1)(G) - A plan shall be adopted in accordance with this chapter and shall do all of the following: Sales to other agencies

*LADWP Supplemental Information:*

*LADWP is a retail water agency and does not sell water to other water agencies.*

**6) DWR requested that LADWP provide an estimate for an implementation timeline for projected water resource projects.**

Pertinent California Water Code Section, 10631(h) - Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

*LADWP Supplemental Information:*

*Following is LADWP's estimate based on best available information for planned water supply development projects identified in Exhibits 6C through 6I.*

LADWP Planned Future Water Supply Projects - Estimated Timelines and Yields							
Project Name	Projected Start Date	Projected Completion Date	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF
<b>Water Recycling Projects</b>							
Westside	1997	2015	900	900	900	900	900
Central City/Elysian Park	2006	2030	2,100	2,100	2,100	2,100	2,100
Harbor	2006	2015	12,600	12,600	12,600	12,600	12,600
Sepulveda	2008	2013	13,400	13,400	13,400	13,400	13,400
Seawater Desalination	2007	2015	13,500	13,500	13,500	13,500	13,500
Water Transfer	2006	2010	40,000	40,000	40,000	40,000	40,000
			82,500	82,500	82,500	82,500	82,500

**7) DWR requested that LADWP provide copies of its Best Management Practices reports for 2003 and 2004 that have been submitted to the California Urban Water Conservation Council and referenced in the Water Plan.**

Pertinent California Water Code Section, 10631(j) - Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).

*LADWP Supplemental Information:*

*LADWP has included as Attachments C and D, the 2003 and 2004 Best Management Practices reports that were submitted to the California Urban Water Conservation Council and referenced in its Water Plan.*

**8) DWR requested clarification that the Water Plan's discussion on Catastrophic Supply Interruption Plan includes a regional power outage and earthquakes.**

Pertinent California Water Code Section, 10632(c) - The plan shall provide an urban water shortage contingency analysis which includes each of the following elements which are within the authority of the urban water supplier: Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.

*LADWP Supplemental Information:*

*LADWP's Emergency Response Plans include power outages and earthquakes as potential disasters that can result in a temporary interruption of water supply to the City of Los Angeles. LADWP has trained personnel to coordinate its efforts with the City's Emergency Operations center to resume water supply service after a catastrophic event, including power outages and earthquakes.*

Attachments

Attachment A

**Los Angeles Department of Water and Power**



**Attendance Sheet**

**2005 Urban Water Management Plan**

**Coordination Meeting  
(June 7, 2005)**



# 2005 Regional Urban Water Management Plan Workshop

Tuesday, June 7, 2005

ADWP John Ferraro Building, 14<sup>th</sup> floor  
11 North Hope Street, Los Angeles

24

NAME	ORGANIZATION	PHONE #	E-MAIL
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Gina Chan	MWD	(213) 217-6798	gchan@mwdh2o.com
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Dave Belljohn	LADWP		
Flora Banfista	"		

KUWMP - LADWP

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- 3 VINCENT CHEE City of Beverly Hills 310-285-2507 vchee@BeverlyHills.org  
Kerwin Watson & Earth Tech - 310-246-0328
- 4 Kevin Watson Earth Tech - City of Beverly Hills 310-246-0328
- 5 Shana Fyfe City of Beverly Hills 310-285-2570 sepfyfe@beverlyhills.org
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- 7 PETER KAVOUNAS GLENDALE (818) 548-2137 pkavounas@ci.glendale.ca.us
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213-367-1131

Attachment B

## **Los Angeles Department of Water and Power**



### **Mailing List**

### **2005 Urban Water Management Plan**



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The Honorable Pete Domenici,  
Chairman  
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Resources  
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The Honorable Richard Pombo,  
Chairman  
Committee on Resources  
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The Honorable Adam Schiff  
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Mr. Le Val Lund  
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Los Angeles, CA 90027

Attachment C

**Los Angeles Department of Water and Power**



**2003**

**Best Management Practice Report**

**Submitted to:**

**California Urban Water Conservation Council**

## Water Supply & Reuse

Reporting Unit:

Los Angeles Dept. of Water and Power

Year:

2003

### Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
LA Aqueduct	203842	Imported
MWDSC	372272	Imported
Groundwater	90707	Groundwater
Recycled	1635	Recycled
Transfer	-1662	Imported
Storage	-1534	Imported

**Total AF: 665260**

## Accounts & Water Use

Reporting Unit Name:  
Los Angeles Dept. of Water  
and Power

Submitted to CUWCC  
02/08/2005

Year:  
2003

### A. Service Area Population Information:

1. Total service area population 3885400

### B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	475460	239299	0	0
2. Multi-Family	120477	188235	0	0
3. Commercial	62226	104158	0	0
4. Industrial	7209	22388	0	0
5. Institutional	7181	24757	0	0
6. Dedicated Irrigation	955	15276	0	0
7. Recycled Water	34	1635	0	0
8. Other	0	3196	0	0
9. Unaccounted	NA	66316	NA	0
<b>Total</b>	673542	665260	0	0

**Metered**                      **Unmetered**

# BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:  
Los Angeles Dept. of Water and Power

BMP Form Status:  
100% Complete

Year:  
2003

## A. Implementation

1. Based on your signed MOU date, 09/12/1991, your Agency STRATEGY DUE DATE is: 09/11/1993
2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? yes
- a. If YES, when was it implemented? 06/01/1990
3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? yes
- a. If YES, when was it implemented? 06/01/1990

## B. Water Survey Data

### Survey Counts:

	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	0	0
2. Number of surveys completed:	0	0

### Indoor Survey:

3. Check for leaks, including toilets, faucets and meter checks	yes	yes
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary	yes	yes
5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary, replace leaking toilet flapper, as necessary	yes	yes

### Outdoor Survey:

6. Check irrigation system and timers	yes	yes
7. Review or develop customer irrigation schedule	yes	no
8. Measure landscaped area (Recommended but not required for surveys)	no	no
9. Measure total irrigable area (Recommended but not required for surveys)	no	no
10. Which measurement method is typically used (Recommended but not required for surveys)		None
11. Were customers provided with information packets that included evaluation results and water savings recommendations?	yes	yes
12. Have the number of surveys offered and completed, survey results, and survey costs been tracked?	yes	yes

- a. If yes, in what form are surveys tracked? database
- b. Describe how your agency tracks this information.

Contractor reporting & invoice support documentation (when implemented).

### C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### E. Comments

Program implemented as water/energy conservation program by LADWP energy efficiency. Program suspended pending budget authorization.

## BMP 02: Residential Plumbing Retrofit

Reporting Unit:  
Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2003

### A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? yes

a. If YES, list local jurisdictions in your service area and code or ordinance in each:

City of Los Angeles "Water Closet, Urinal and Showerhead Regulations - Retrofit on Resale" Ordinance (No. 172075)

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes

3. Estimated percent of single-family households with low-flow showerheads: 99%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? yes

5. Estimated percent of multi-family households with low-flow showerheads: 99%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

L.A. enacted an ordinance requiring all LADWP customers to install low flow showerheads & have installations certified or incur financial penalties for non-compliance. 99+% of LADWP customers have demonstrated compliance

### B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes

a. If YES, when did your agency begin implementing this strategy? 07/01/1988

b. Describe your targeting/ marketing strategy.

Direct mail to all SF customers; element of all survey pgms; req'd per L.A. ordinance; provided upon request to any residential customer; distributed with program ULFTs.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	3477	6457
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	42	28
5. Number of faucet aerators distributed:	1266	2350
6. Does your agency track the distribution and cost of low-flow devices?		yes

a. If YES, in what format are low-flow devices tracked? Database

b. If yes, describe your tracking and distribution system :

Tracking: in-house inventory control. Distribution: by CBOs & through Conservation office.

### C. Low-Flow Device Distribution Expenditures

This Year      Next Year

1. Budgeted Expenditures	100000	500000
2. Actual Expenditures	41510	

**D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

N/A

**E. Comments**

Distribution program only. Flappers shown were replaced as part of a ULFT flapper leak study undertaken by LADWP. FY03-04 to include direct install program.

# BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:  
Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2003

## A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? no
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
  - a. Determine metered sales (AF)
  - b. Determine other system verifiable uses (AF)
  - c. Determine total supply into the system (AF)
  - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.00
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? yes
6. Does your agency operate a system leak detection program? no
  - a. If yes, describe the leak detection program:

Std procedure: system in/out flow tracked daily; pipe rehab pgm ongoing; leak repair crews maintained; customer billing system flags high use for action

## B. Survey Data

1. Total number of miles of distribution system line. 7110
2. Number of miles of distribution system line surveyed. 0

## C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## E. Comments

# **BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing**

Reporting Unit:

**Los Angeles Dept. of Water  
and Power**

BMP Form Status:

**100% Complete**

Year:

**2003**

## **A. Implementation**

1. Does your agency require meters for all new connections and bill by volume-of-use? yes

2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no

a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?

b. Describe the program:

In conjunction with LADWP, the L.A. Bureau of Sanitation offers a submetering pgm that results in dedicated landscape metering. The customer incentive is that sewer service charges are assessed only on domestic consumption

3. Number of previously unmetered accounts fitted with meters during report year. 0

## **B. Feasibility Study**

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no

a. If YES, when was the feasibility study conducted?  
(mm/dd/yy)

b. Describe the feasibility study:

2. Number of CII accounts with mixed-use meters. 76616

3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

## **C. Meter Retrofit Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## **D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## **E. Comments**

# **BMP 05: Large Landscape Conservation Programs and Incentives**

Reporting Unit:  
Los Angeles Dept. of  
Water and Power

BMP Form Status:  
100% Complete

Year:  
2003

## **A. Water Use Budgets**

- |  |     |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts:  | 955 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:                       | 249 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):                     | 0   |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):                       | 0   |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | yes |

## **B. Landscape Surveys**

- |   |            |
|---|------------|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys?  | yes        |
| a. If YES, when did your agency begin implementing this strategy?   | 06/10/1996 |
| b. Description of marketing / targeting strategy:   |            |
| Work with L.A. Dept Rec & Parks, school district to audit & provide audit training. All accts applying for landscape incentives also audited. |            |
| 2. Number of Surveys Offered.   | 107        |
| 3. Number of Surveys Completed.   | 107        |
| 4. Indicate which of the following Landscape Elements are part of your survey:  |            |
| a. Irrigation System Check  | yes        |
| b. Distribution Uniformity Analysis   | yes        |
| c. Review / Develop Irrigation Schedules  | yes        |
| d. Measure Landscape Area   | yes        |
| e. Measure Total Irrigable Area   | yes        |
| f. Provide Customer Report / Information  | yes        |
| 5. Do you track survey offers and results?  | yes        |
| 6. Does your agency provide follow-up surveys for previously completed surveys?   | yes        |
| a. If YES, describe below:  |            |
| Accounts having poor distribution uniformity re-audited after system improvements completed   |            |

## **C. Other BMP 5 Actions**

- |   |                                    |
|---|------------------------------------|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. | no                                 |
| Does your agency provide mixed-use accounts with landscape budgets?   |                                    |
| 2. Number of CII mixed-use accounts with landscape budgets.   | 0                                  |
| 3. Do you offer landscape irrigation training?  | yes                                |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency?                                 | yes                                |
| Type of Financial   | Budget Number Awarded Total Amount |

Incentive:	(Dollars/ Year)	to Customers	Awarded
a. Rebates	200000	2	11624
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? yes

a. If yes, is it water-efficient? yes

b. If yes, does it have dedicated irrigation metering? yes

7. Do you provide customer notices at the start of the irrigation season? no

8. Do you provide customer notices at the end of the irrigation season? no

#### D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	750000	500000
2. Actual Expenditures	470567	

#### E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

#### F. Comments

Actual expenditures includes \$350,000 expended on residential ET Controller Program (direct install of controller with 3 yrs of signal) at no cost to participating customers. Per LADWP rate ordinance, dedicated landscape accounts meeting eligibility criteria are not subject to a budget.

# **BMP 06: High-Efficiency Washing Machine Rebate Programs**

Reporting Unit:  
**Los Angeles Dept. of Water and Power**

BMP Form Status:  
**100% Complete**

Year:  
**2003**

## **A. Implementation**

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes

a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

LADWP energy efficiency-\$75 (requires electric hot water heating);  
SoCalGas Company-\$75; L.A. Bureau of Sanitation & SoCalGas  
provided pgm start-up funding

2. Does your agency offer rebates for high-efficiency washers? yes

3. What is the level of the rebate? 150

4. Number of rebates awarded. 6869

## **B. Rebate Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	900000	900000
2. Actual Expenditures	941765	

## **C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## **D. Comments**

Number of rebates includes 866 washers rebated through MWD's CII program. LADWP does not supplement the MWD rebate amount.

## BMP 07: Public Information Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2003

### A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

Bill messaging/inserts, website information, publication distribution at public venues/by CBOs/on request, press releases, media events, Speakers Bureau, print ads, radio ads/spots/ PSAs, mass transit signage, mobile water exhibit for LADWP Centennial, permanent water display at LA landmark Olvera Street, community/business events

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	3000
b. Public Service Announcement	yes	300
c. Bill Inserts / Newsletters / Brochures	yes	3
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	250
g. Speaker's Bureau	yes	25
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

### B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	100000	500000
2. Actual Expenditures	45500	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

## BMP 08: School Education Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2003

### A. Implementation

1. Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade- appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	0	2250	3
Grades 4th-6th	yes	0	7500	3
Grades 7th-8th	yes	0	15000	3
High School	yes	0	15000	3

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 09/15/1975

### B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	50000	50000
2. Actual Expenditures	14475	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

**BMP 09: Conservation Programs for CII Accounts**

Reporting Unit:

**Los Angeles Dept. of  
Water and Power**

BMP Form Status:

**100% Complete**

Year:

**2003****A. Implementation**

1. Has your agency identified and ranked COMMERCIAL customers according to use? yes
2. Has your agency identified and ranked INDUSTRIAL customers according to use? yes
3. Has your agency identified and ranked INSTITUTIONAL customers according to use? yes

**Option A: CII Water Use Survey and Customer Incentives Program**

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? yes

<b>CII Surveys</b>	<b>Commercial Accounts</b>	<b>Industrial Accounts</b>	<b>Institutional Accounts</b>
a. Number of New Surveys Offered	30	7	4
b. Number of New Surveys Completed	30	7	4
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	10	1	1
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	10	2	1
<b>CII Survey Components</b>	<b>Commercial Accounts</b>	<b>Industrial Accounts</b>	<b>Institutional Accounts</b>
e. Site Visit	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes
<b>Agency CII Customer Incentives</b>	<b>Budget (\$/Year)</b>	<b>No. Awarded to Customers</b>	<b>Total \$ Amount Awarded</b>
h. Rebates	530000	7323	384533
i. Loans	0	0	0
j. Grants	0	2	400000
k. Others	0	0	0

**Option B: CII Conservation Program Targets**

5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this yes

option?

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? yes

7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. 4769

8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991. 258

#### B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	1000000	1000000
2. Actual Expenditures	855012	

#### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

#### D. Comments

LADWP is pursuing the performance target approach, but will continue conducting site surveys upon request. Site verified actions include LADWP verification, plumbing permit inspection, program direct install. Expenditures shown include ULFT rebate costs but do not include any MWD expenditures.

# BMP 09a: CII ULFT Water Savings

Reporting Unit:

Los Angeles Dept. of  
Water and Power

BMP Form Status:

100% Complete

Year:

2003

1. Did your agency implement a CII  
ULFT replacement program in the  
reporting year?

Yes

If No, please explain why on Line B.

10.

## A. Targeting and Marketing

1. What basis does your  
agency use to target  
customers for participation  
in this program? Check all  
that apply.

CII Sector or subsector

CII ULFT Study subsector targeting

a. Describe which method you found to be the most  
effective overall, and which was the most effective per  
dollar expended.

CII sectors and subsectors most effective because  
marketing efforts could be versioned appropriately.

2. How does your agency  
advertise this program?

Check all that apply.

Direct letter

Bill insert

Newsletter

Web page

Newspapers

Trade publications

Other print media

Trade shows and events

Telemarketing

a. Describe which method you found to be the most  
effective overall, and which was the most effective per  
dollar expended.

Trade allies have proven to be the most effective  
overall marketing tool, as well as the most effective per  
dollar expended. Trade allies include plumbers,  
distributors, retail home improvement stores and  
product manufacturers.

## B. Implementation

1. Does your agency keep and maintain customer  
participant information? (Read the Help information  
for a complete list of all the information for this  
BMP.)

Yes

2. Would your agency be willing to share this  
information if the CUWCC did a study to evaluate  
the program on behalf of your agency?

Yes

3. What is the total number of customer accounts  
participating in the program during the last year ?

154

CII  
Subsector

Number of Toilets Replaced

4.

Standard  
Gravity  
Tank

Air  
Assisted

Valve Floor  
Mount

Valve Wall  
Mount

Type Not  
Specified

a. Offices	54	0	454	0	0
b. Retail / Wholesale	64	0	0	0	0
c. Hotels	2369	0	43	0	0
d. Health	21	0	0	0	0
e. Industrial	0	0	0	0	0
f. Schools: K to 12	16	0	374	0	0
g. Eating	3	0	0	0	0
h. Government	0	0	0	0	0
i. Churches	14	0	0	0	0
j. Other	52	4	18	0	0

5. Program design.

Rebate or voucher

6. Does your agency use outside services to implement this program?

Yes

a. If yes, check all that apply.

Consultant

7. Participant tracking and follow-up.

Telephone

Site Visit

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

- |                                     |   |
|-------------------------------------|---|
| a. Disruption to business           | 1 |
| b. Inadequate payback               | 3 |
| c. Inadequate ULFT performance      | 2 |
| d. Lack of funding                  | 4 |
| e. American's with Disabilities Act | 1 |
| f. Permitting                       | 5 |
| g. Other. Please describe in B. 9.  | 1 |

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other issues affecting program implementation or effectiveness.

Customers are generally more willing to participate in the program if the cost of the retrofit is in balance with the amount of the rebate, and the projected water savings is significant. resistance occurs if the out-of-pocket expense for the retrofit is too costly and the rebate amount is too low.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

Increased rebate levels (\$250 - flushometer; \$175 - gravity) resulted in significant increase in participation levels. Improved marketing combined with higher rebates to greatly improve program.

### C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor	0	0
b. Materials	0	0
c. Marketing & Advertising	0	0
d. Administration & Overhead	0	0
e. Outside Services	0	0
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	311515
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	211130
e. Total	522645

**D. Comments**

Per Honeywell and MWD, LADWP data has been provided to the CUWCC as part of MWD's regional data. The same data has been provided here. LADWP expenditures (supplemental rebates) also shown under BMP 9. It should also be noted that the LADWP's efforts to expand the Retrofit on Resale requirements to nonresidential properties were halted do to concerns over such a requirement triggering ADA requirements.

# BMP 11: Conservation Pricing

Reporting Unit:  
Los Angeles Dept. of Water and  
Power

BMP Form  
Status:  
100% Complete

Year:  
2003

## A. Implementation

### Rate Structure Data Volumetric Rates for Water Service by Customer Class

#### 1. Residential

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$397025025
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

#### 2. Commercial

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$107885439
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

#### 3. Industrial

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$21225876
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

#### 4. Institutional / Government

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$29752992
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

#### 5. Irrigation

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

#### 6. Other

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

## B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## D. Comments

Irrigation rate revenue included in categories 2-3-4.

## BMP 12: Conservation Coordinator

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2003

### A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? yes
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ?
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
  - a. What percent is this conservation coordinator's position? 100%
  - b. Coordinator's Name Thomas Gackstetter
  - c. Coordinator's Title Water Conservation Manager
  - d. Coordinator's Experience and Number of Years Water/Energy consv - 15 yrs
  - e. Date Coordinator's position was created (mm/dd/yyyy) 12/11/1991
6. Number of conservation staff, including Conservation Coordinator. 6

### B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	496000	475000
2. Actual Expenditures	443111	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

## BMP 13: Water Waste Prohibition

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2003

### A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

Prohibits use of water on hardscape, gutter flooding, unattended leaks, mid-day watering, serving water in restaurants w/o request, non-recirc fountains

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Los Angeles

Ord. No. 166080

### B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

- |  |     |
|--|-----|
| a. Gutter flooding   | yes |
| b. Single-pass cooling systems for new connections                   | no  |
| c. Non-recirculating systems in all new conveyor or car wash systems | no  |
| d. Non-recirculating systems in all new commercial laundry systems   | no  |
| e. Non-recirculating systems in all new decorative fountains         | yes |
| f. Other, please name<br>See above                                   | yes |

2. Describe measures that prohibit water uses listed above:

Specific ordinance language, monetary penalties, service restriction/shutoff. Cost of water/wastewater and common practice limits number of single-pass systems.

#### Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

- |  |    |
|--|----|
| a. Allow the sale of more efficient, demand-initiated regenerating DIR models.   | no |
| b. Develop minimum appliance efficiency standards that:  |    |
| i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used.  | no |
| ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced.   | no |
| c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. | no |

4. Does your agency include water softener checks in home water audit programs? no

5. Does your agency include information about DIR and exchange-

type water softeners in educational efforts to encourage replacement of less efficient timer models? no

**C. Water Waste Prohibition Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**E. Comments**

## BMP 14: Residential ULFT Replacement Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2003

### A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	yes	yes

#### Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	10960	2469
3. Direct Install	0	0
4. CBO Distribution	18437	19416
5. Other	0	0
<b>Total</b>	<b>29397</b>	<b>21885</b>

6. Describe your agency's ULFT program for single-family residences.

Rebate of \$100 per toilet replaced or free toilet in exchange for old toilet

7. Describe your agency's ULFT program for multi-family residences.

Rebate of \$75 per toilet replaced or free toilet in exchange for old toilet.

8. Is a toilet retrofit on resale ordinance in effect for your service area? yes

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

City of Los Angeles

Ord. No. 172075

### B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	8000000	8000000
2. Actual Expenditures	6548182	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments



Attachment D

**Los Angeles Department of Water and Power**



**2004**

**Best Management Practice Report**

**Submitted to:**

**California Urban Water Conservation Council**

## Water Supply & Reuse

Reporting Unit:  
Los Angeles Dept. of Water and Power

Year:  
2004

### Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
LA Aqueduct	225418	Imported
MWDSC	367815	Imported
Groundwater	94279	Groundwater
Recycled	2053	Recycled
Transfer	-326	Imported
Storage	3264	Imported

**Total AF: 692503**

## Accounts & Water Use

Reporting Unit Name:  
Los Angeles Dept. of Water  
and Power

Submitted to CUWCC  
02/08/2005

Year:  
2004

### A. Service Area Population Information:

1. Total service area population 3938200

### B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	477607	253055	0	0
2. Multi-Family	121378	193130	0	0
3. Commercial	62838	108736	0	0
4. Industrial	6960	21058	0	0
5. Institutional	7346	27662	0	0
6. Dedicated Irrigation	956	16142	0	0
7. Recycled Water	40	2053	0	0
8. Other	0	326	0	0
9. Unaccounted	NA	70341	NA	0
<b>Total</b>	677125	692503	0	0

**Metered**                      **Unmetered**

# BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:  
Los Angeles Dept. of Water and Power

BMP Form Status:  
100% Complete

Year:  
2004

## A. Implementation

1. Based on your signed MOU date, 09/12/1991, your Agency STRATEGY DUE DATE is: 09/11/1993
2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? yes
- a. If YES, when was it implemented? 06/01/1990
3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? yes
- a. If YES, when was it implemented? 06/01/1990

## B. Water Survey Data

### Survey Counts:

	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	45265	0
2. Number of surveys completed:	5192	16107

### Indoor Survey:

3. Check for leaks, including toilets, faucets and meter checks yes yes
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary yes yes
5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary yes yes

### Outdoor Survey:

6. Check irrigation system and timers yes no
7. Review or develop customer irrigation schedule yes no
8. Measure landscaped area (Recommended but not required for surveys) yes no
9. Measure total irrigable area (Recommended but not required for surveys) yes no
10. Which measurement method is typically used (Recommended but not required for surveys) Odometer Wheel
11. Were customers provided with information packets that included evaluation results and water savings recommendations? yes no
12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? yes no

a. If yes, in what form are surveys tracked? database

b. Describe how your agency tracks this information.

Contractor reporting & invoice support documentation.

### C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	350000	0
2. Actual Expenditures	350000	

### D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### E. Comments

Implemented as SF ET controller pilot program. Cost includes controller, survey and install labor, signal fee. Also implemented as device direct install program with costs shown under BMP 2. Indirect marketing for MF segment.

## BMP 02: Residential Plumbing Retrofit

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2004

### A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? yes

a. If YES, list local jurisdictions in your service area and code or ordinance in each:

City of Los Angeles "Water Closet, Urinal and Showerhead Regulations - Retrofit on Resale" Ordinance (No. 172075)

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes

3. Estimated percent of single-family households with low-flow showerheads: 99%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? yes

5. Estimated percent of multi-family households with low-flow showerheads: 99%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

L.A. enacted an ordinance requiring all LADWP customers to install low flow showerheads & have installations certified or incur financial penalties for non-compliance. 99+% of LADWP customers have demonstrated compliance

### B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes

a. If YES, when did your agency begin implementing this strategy? 07/01/1988

b. Describe your targeting/ marketing strategy.

Direct mail to all SF customers; element of all survey pgms; req'd per L.A. ordinance; provided upon request to any residential customer; distributed with program ULFTs.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	6937	23435
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	105	375
5. Number of faucet aerators distributed:	10726	37907
6. Does your agency track the distribution and cost of low-flow devices?		yes

a. If YES, in what format are low-flow devices tracked? Database

b. If yes, describe your tracking and distribution system :

Tracking: in-house inventory control; contractor invoices & support documentation. Distribution: direct install by CBOs; distribution by CBOs & through Conservation office.

### C. Low-Flow Device Distribution Expenditures

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	500000	500000
2. Actual Expenditures	759239	

**D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

N/A

**E. Comments**

Direct install accounts for vast majority of devices and cost.  
Showerheads are 2.0 gpm

# BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2004

## A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? no
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
  - a. Determine metered sales (AF)
  - b. Determine other system verifiable uses (AF)
  - c. Determine total supply into the system (AF)
  - d. Using the numbers above, if  $(\text{Metered Sales} + \text{Other Verifiable Uses}) / \text{Total Supply} < 0.9$  then a full-scale system audit is required. 0.00
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? yes
6. Does your agency operate a system leak detection program? no
  - a. If yes, describe the leak detection program:

Std procedure: system in/out flow tracked daily; pipe rehab pgm ongoing; leak repair crews maintained; customer billing system flags high use for action

## B. Survey Data

1. Total number of miles of distribution system line. 7110
2. Number of miles of distribution system line surveyed. 0

## C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## E. Comments

# BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:

Los Angeles Dept. of Water  
and Power

BMP Form Status:  
100% Complete

Year:  
2004

## A. Implementation

1. Does your agency require meters for all new connections and bill by volume-of-use? yes

2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no

a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?

b. Describe the program:

In conjunction with LADWP, the L.A. Bureau of Sanitation offers a submetering pgm that results in dedicated landscape metering. The customer incentive is that sewer service charges are assessed only on domestic consumption

3. Number of previously unmetered accounts fitted with meters during report year. 0

## B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no

a. If YES, when was the feasibility study conducted?  
(mm/dd/yy)

b. Describe the feasibility study:

2. Number of CII accounts with mixed-use meters. 77144

3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

## C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## E. Comments

## BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:  
Los Angeles Dept. of  
Water and Power

BMP Form Status:  
100% Complete

Year:  
2004

### A. Water Use Budgets

- |  |     |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts:  | 956 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:                       | 250 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):                     | 0   |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):                       | 0   |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | yes |

### B. Landscape Surveys

- |  |     |
|--|-----|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | yes |
|--|-----|

a. If YES, when did your agency begin implementing this strategy?	06/10/1996
---	------------

b. Description of marketing / targeting strategy:

Work with L.A. Dept Rec & Parks, school district to audit & provide audit training. All accts applying for landscape incentives also audited. Review consumption history for excess use.

- |  |     |
|--|-----|
| 2. Number of Surveys Offered.  | 155 |
| 3. Number of Surveys Completed.  | 155 |
| 4. Indicate which of the following Landscape Elements are part of your survey: |     |

- |  |     |
|--|-----|
| a. Irrigation System Check               | yes |
| b. Distribution Uniformity Analysis      | yes |
| c. Review / Develop Irrigation Schedules | yes |
| d. Measure Landscape Area                | yes |
| e. Measure Total Irrigable Area          | yes |
| f. Provide Customer Report / Information | yes |

- |  |     |
|--|-----|
| 5. Do you track survey offers and results? | yes |
|--|-----|

- |   |     |
|---|-----|
| 6. Does your agency provide follow-up surveys for previously completed surveys? | yes |
|---|-----|

a. If YES, describe below:

Accounts having poor distribution uniformity re-audited after system improvements completed

### C. Other BMP 5 Actions

- |  |     |
|--|-----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program.<br>Does your agency provide mixed-use accounts with landscape budgets? | no  |
| 2. Number of CII mixed-use accounts with landscape budgets.  | 0   |
| 3. Do you offer landscape irrigation training?   | yes |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency?  | yes |

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	100000	5	21542
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? yes

a. If yes, is it water-efficient? yes

b. If yes, does it have dedicated irrigation metering? yes

7. Do you provide customer notices at the start of the irrigation season? no

8. Do you provide customer notices at the end of the irrigation season? no

#### D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	500000	500000
2. Actual Expenditures	178850	

#### E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

#### F. Comments

Per LADWP rate ordinance, dedicated landscape accounts meeting eligibility criteria are not subject to a budget. A budgeted residential landscape study was deferred.

# **BMP 06: High-Efficiency Washing Machine Rebate Programs**

Reporting Unit:  
**Los Angeles Dept. of Water and Power**

BMP Form Status:  
**100% Complete**

Year:  
**2004**

## **A. Implementation**

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes

a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

LADWP energy efficiency-\$75 (requires electric hot water heating);  
SoCalGas Company-\$75; L.A. Bureau of Sanitation & SoCalGas provided pgm start-up funding

2. Does your agency offer rebates for high-efficiency washers? yes

3. What is the level of the rebate? 150

4. Number of rebates awarded. 9373

## **B. Rebate Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	900000	950000
2. Actual Expenditures	1312987	

## **C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## **D. Comments**

Number of rebates includes 2935 washers rebated through MWD's CII program. LADWP supplemented MWD rebate amount (rebate of \$450) for 1450 washers.

## BMP 07: Public Information Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2004

### A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

Bill messaging/inserts, website information, publication distribution at public venues/on request, press releases, media events, Speakers Bureau, radio ads/spots/PSAs, mass transit signage, "scrolling radio" signage along LA freeway, LADWP fleet vehicle signage, signage in all LADWP Customer Service Centers/City Councilmember field offices/LA sports venues, permanent water display at LA landmark Olvera Street, community/ business events

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	2500
b. Public Service Announcement	yes	120
c. Bill Inserts / Newsletters / Brochures	yes	4
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	60
g. Speaker's Bureau	yes	20
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

### B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	500000	500000
2. Actual Expenditures	596479	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

## BMP 08: School Education Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2004

### A. Implementation

1. Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	0	1500	2
Grades 4th-6th	yes	0	5000	2
Grades 7th-8th	yes	0	5000	1
High School	yes	0	5000	1

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 09/15/1975

### B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	50000	50000
2. Actual Expenditures	14735	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

## BMP 09: Conservation Programs for CII Accounts

Reporting Unit:

Los Angeles Dept. of  
Water and Power

BMP Form Status:

100% Complete

Year:

2004

### A. Implementation

1. Has your agency identified and ranked COMMERCIAL customers according to use? yes
2. Has your agency identified and ranked INDUSTRIAL customers according to use? yes
3. Has your agency identified and ranked INSTITUTIONAL customers according to use? yes

### Option A: CII Water Use Survey and Customer Incentives Program

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? yes

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	16	7	4
b. Number of New Surveys Completed	16	7	4
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	10	1	1
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	10	2	1
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	875000	9236	576748
i. Loans	0	0	0
j. Grants	0	2	200000
k. Others	0	0	0

### Option B: CII Conservation Program Targets

5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this yes

option?

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? yes

7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. 6162

8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991. 714

#### **B. Conservation Program Expenditures for CII Accounts**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	1000000	1500000
2. Actual Expenditures	869377	

#### **C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

#### **D. Comments**

LADWP is pursuing the performance target approach, but will continue conducting site surveys upon request. Site verified actions include LADWP verification, plumbing permit inspection, program direct install. Expenditures shown include ULFT rebate costs but do not include any MWD expenditures.

# BMP 09a: CII ULFT Water Savings

Reporting Unit:

Los Angeles Dept. of  
Water and Power

BMP Form Status:  
100% Complete

Year:  
2004

1. Did your agency implement a CII  
ULFT replacement program in the  
reporting year?

Yes

If No, please explain why on Line B.  
10.

## A. Targeting and Marketing

1. What basis does your  
agency use to target  
customers for participation  
in this program? Check all  
that apply.

CII Sector or subsector  
CII ULFT Study subsector targeting

a. Describe which method you found to be the most  
effective overall, and which was the most effective per  
dollar expended.

CII sectors and subsectors most effective because  
marketing efforts could be versioned appropriately.

2. How does your agency  
advertise this program?  
Check all that apply.

Direct letter  
Bill insert  
Newsletter  
Web page  
Newspapers  
Trade publications  
Other print media  
Trade shows and events  
Telemarketing

a. Describe which method you found to be the most  
effective overall, and which was the most effective per  
dollar expended.

Trade allies have proven to be the most effective  
overall marketing tool, as well as the most effective per  
dollar expended. Trade allies include plumbers,  
distributors, retail home improvement stores and  
product manufacturers.

## B. Implementation

1. Does your agency keep and maintain customer  
participant information? (Read the Help information  
for a complete list of all the information for this  
BMP.)

Yes

2. Would your agency be willing to share this  
information if the CUWCC did a study to evaluate  
the program on behalf of your agency?

Yes

3. What is the total number of customer accounts  
participating in the program during the last year ?

122

CII  
Subsector

Number of Toilets Replaced

4.	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount	Type Not Specified
----	-----------------------------	-----------------	----------------------	---------------------	-----------------------

a. Offices	34	0	40	0	0
b. Retail / Wholesale	88	0	0	0	0
c. Hotels	3008	6	204	0	0
d. Health	136	0	0	0	0
e. Industrial	0	0	0	0	0
f. Schools: K to 12	27	35	353	0	0
g. Eating	0	0	0	0	0
h. Govern- ment	150	1	0	0	0
i. Churches	27	0	23	0	0
j. Other	27	0	0	0	0

5. Program  
design.

Rebate or voucher

6. Does your agency use outside services to  
implement this program?

Yes

a. If yes, check all that  
apply.

Consultant

7. Participant tracking and  
follow-up.

Telephone

Site Visit

8. Based on your program experience, please rank on a scale of 1 to  
5, with 1 being the least frequent cause and 5 being the most  
frequent cause, the following reasons why customers refused to  
participate in the program.

- |                                     |   |
|-------------------------------------|---|
| a. Disruption to business           | 1 |
| b. Inadequate payback               | 3 |
| c. Inadequate ULFT performance      | 2 |
| d. Lack of funding                  | 5 |
| e. American's with Disabilities Act | 1 |
| f. Permitting                       | 4 |
| g. Other. Please describe in B. 9.  | 1 |

9. Please describe general program acceptance/resistance by  
customers, obstacles to implementation, and other issues affecting  
program implementation or effectiveness.

Customers are generally more willing to participate in  
the program if the cost of the retrofit is in balance with  
the amount of the rebate, and the projected water  
savings is significant. resistance occurs if the out-of-  
pocket expense for the retrofit is too costly and the  
rebate amount is too low.

10. Please provide a general assessment of the program for this  
reporting year. Did your program achieve its objectives? Were your  
targeting and marketing approaches effective? Were program costs  
in line with expectations and budgeting?

Increased rebate levels (\$250 - flushometer; \$175 -  
gravity) resulted in significant increase in participation  
levels. Improved marketing combined with higher  
rebates to greatly improve program.

### C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor	0	0
b. Materials	0	0
c. Marketing & Advertising	0	0
d. Administration & Overhead	0	0
e. Outside Services	0	0
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	250740
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	466485
e. Total	717225

**D. Comments**

Per Honeywell and MWD, LADWP data has been provided to the CUWCC as part of MWD's regional data. The same data has been provided here. LADWP expenditures (supplemental rebates) also shown under BMP 9.

## BMP 11: Conservation Pricing

Reporting Unit:  
Los Angeles Dept. of Water and  
Power

BMP Form  
Status:  
100% Complete

Year:  
2004

### A. Implementation

#### Rate Structure Data Volumetric Rates for Water Service by Customer Class

##### 1. Residential

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$419855198
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

##### 2. Commercial

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$108716203
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

##### 3. Industrial

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$19884372
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

##### 4. Institutional / Government

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$32497686
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

##### 5. Irrigation

a. Water Rate Structure	Increasing Block Seasonal
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

##### 6. Other

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

## B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## D. Comments

Irrigation rate revenue included in categories 2-3-4.

## BMP 12: Conservation Coordinator

Reporting Unit:  
Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2004

### A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? yes
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ?
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
  - a. What percent is this conservation coordinator's position? 100%
  - b. Coordinator's Name Thomas Gackstetter
  - c. Coordinator's Title Water Conservation Manager
  - d. Coordinator's Experience and Number of Years Water/Energy convs - 16 yrs
  - e. Date Coordinator's position was created (mm/dd/yyyy) 12/11/1991
6. Number of conservation staff, including Conservation Coordinator. 6

### B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	475000	504500
2. Actual Expenditures	438414	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

## BMP 13: Water Waste Prohibition

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:  
100% Complete

Year:  
2004

### A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

Prohibits use of water on hardscape, gutter flooding, unattended leaks, mid-day watering, serving water in restaurants w/o request, non-recirc fountains

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Los Angeles

Ord. No. 166080

### B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

- |  |     |
|--|-----|
| a. Gutter flooding   | yes |
| b. Single-pass cooling systems for new connections                   | no  |
| c. Non-recirculating systems in all new conveyor or car wash systems | no  |
| d. Non-recirculating systems in all new commercial laundry systems   | no  |
| e. Non-recirculating systems in all new decorative fountains         | yes |
| f. Other, please name<br>See above                                   | yes |

2. Describe measures that prohibit water uses listed above:

Specific ordinance language, monetary penalties, service restriction/shutoff. Cost of water/wastewater and common practice limits number of single-pass systems.

#### Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

- |  |    |
|--|----|
| a. Allow the sale of more efficient, demand-initiated regenerating DIR models.   | no |
| b. Develop minimum appliance efficiency standards that:  |    |
| i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used.  | no |
| ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced.   | no |
| c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. | no |

4. Does your agency include water softener checks in home water audit programs? no

5. Does your agency include information about DIR and exchange-

type water softeners in educational efforts to encourage replacement of less efficient timer models? no

### C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### E. Comments

# BMP 14: Residential ULFT Replacement Programs

Reporting Unit:

Los Angeles Dept. of Water and  
Power

BMP Form Status:

100% Complete

Year:

2004

## A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	yes	yes

### Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	7773	943
3. Direct Install	10776	24833
4. CBO Distribution	3624	2737
5. Other	0	0
<b>Total</b>	<b>22173</b>	<b>28513</b>

6. Describe your agency's ULFT program for single-family residences.

Rebate of \$100 per toilet replaced or free toilet in exchange for old toilet (installed free on request).

7. Describe your agency's ULFT program for multi-family residences.

Rebate of \$75 per toilet replaced or free toilet in exchange for old toilet (installed free on request).

8. Is a toilet retrofit on resale ordinance in effect for your service area? yes

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

City of Los Angeles

Ord. No. 172075

## B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	8000000	9575000
2. Actual Expenditures	9462288	

## C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

## D. Comments

